

CLAIMS

1. An apparatus for simultaneous cleaning of a liquid from first particles suspended therein and cleaning of a gas from second particles suspended therein, in which apparatus
- a centrifugal rotor (11) is rotatable about a rotational axis (12) and arranged for through flow and cleaning of said liquid,
 - a driving device (29, 30) is arranged for rotation of the centrifugal rotor (11) about said rotational axis (12),
 - 10 - a gas cleaning device is connected with the centrifugal rotor (11) for rotation together therewith and is arranged for through flow and cleaning of said gas,
 - a stationary housing (1) surrounds the centrifugal rotor (11) and delimits a passage for conducting said gas to a gas inlet (38) of the gas cleaning
 - 15 device (13) and
 - the gas cleaning device (13) includes a stack of conical separation discs (37), which are arranged coaxially with said rotational axis (12) and between themselves delimit flow passages for the gas to be cleaned,
- 20 c h a r a c t e r i z e d i n
- that the stack of separation discs (37) delimits a central space (39) in communication on one hand with said passage in the stationary housing (1), through the inlet (38) of the gas cleaning device (13), and on the
 - 25 other hand with radially inner parts of the flow passages between the conical discs (37), and
 - that the stack of separation discs (37) is surrounded by a stationary casing (2) delimiting around the separation discs a receiving space (7), in which radial outer parts of the flow passages between the conical discs
 - 30 (37) open.

2. An apparatus according to claim 1, in which the stationary housing (1), surrounding the centrifugal rotor (11), and the stationary casing (2), surrounding the stack of separation discs (37), are formed of a common house.

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3. An apparatus according to claim 1 or 2, in which the gas cleaning device (13) is situated at one axial end of the centrifugal rotor (11) and said gas inlet (38) is situated at the end of the gas cleaning device (13), facing the centrifugal rotor (11).

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4. An apparatus according to claim 3, in which said passage is constituted by a space (6) surrounding the centrifugal rotor (11) and formed between this and the stationary housing (1).

15 5. An apparatus according to claim 4, in which an annular partition (5) is arranged between the centrifugal rotor (11) and the gas cleaning device (13) and is arranged to conduct gas to be cleaned from the aforementioned space (6) towards the gas inlet (38) of the gas cleaning device (13).

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6. An apparatus according to any one of the preceding claims, in which said rotational axis (12) extends substantially vertically and the gas cleaning device (13) is placed above the centrifugal rotor (11).

25 7. An apparatus according to any one of the preceding claims, in which the centrifugal rotor (11) has a central inlet (31-34) for a pressurized liquid and at least one liquid outlet (29, 30) spaced from said rotational axis and directed tangentially to accomplish a reaction drive of the centrifugal rotor (11).

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8. An apparatus according to any one of the preceding claims, which for receiving said liquid to be cleaned communicates with a space that contains lubricating oil coming from a combustion engine, and for receiving said gas to be cleaned communicates with a space that
- 5 contains crankcase gas coming from the said combustion engine.